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(21) International Application Number: PCT/CA00/00137 (22) International Filing Date: 15 February 2000 (15.02.00) (30) Priority Data: 60/120,971 19 February 1999 (19.02.99) US (71) Applicant: HER MAJESTY IN RIGHT OF CANADA as represented by THE MINISTER OF NATIONAL DEFENCE [CA/CA]; Department of National Defence, 101 Colonel By Drive, Ottawa, Ontario K1A 0K2 (CA). (72) Inventors: PURDON, J., Garfield; 12 Calder Green S.E., Medicine Hat, Alberta T1B 3K6 (CA). CHENIER, Claude, L.; 9 Hewitt Court N.E., Medicine Hat, Alberta T1C 1N8 (CA). BURCZYK, Andrew, F., H.; P.O. Box 1361, 17-5th Street, N.E., Redcliff, Alberta T0J 2P0 (CA). (74) Agent: GOODWIN, Sean, W.; The Law Office of Sean W. Goodwin, Suite 300, 714 First Street S.E., Calgary, Alberta T2G 2G8 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: BROAD SPECTRUM DECONTAMINATION FORMULATION AND METHOD OF USE (57) Abstract A decontamination formulation is provided which is effective against a broad spectrum of chemical and biological warfare agents and radioactive dusts, comprising an active decontamination agent, a co-solvent, a buffer system to optimize the initial reaction pH above 8.5 and more preferably in the range of 10 to 11 for favoring oxidation of VX and HD and hydrolysis of G agents, and a surfactant similar to fire-fighting foaming agent. Formulations comprise, in water by weight, 1% to 15% of a hydrated chloroisocyanuric acid salt, 1% to 10% of a PPG co-solvent, 1% to 15% surfactant and a buffer system to initially maintain said formulation at a pH from about 11 to about 8.5 for sufficient duration to effect decontamination. The formulation can be provided in kit form or concentrate form, be prepared, in part, in advance or on site, and be dispensed in foam form which aids in coating and adhering of the decontamination formulation to contaminated surfaces. All ingredients can be pumped through a foam nozzle or water, co-solvent and surfactant can be pumped to the nozzle with solutions of buffer and of active ingredient being introduced at the nozzle for minimizing pump exposure.		

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